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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/589,071	08/09/2006	Hideo Watanabe	NGB-141-A	6591	
	21828 7590 03/27/2008 CARRIER BLACKMAN AND ASSOCIATES			EXAMINER	
24101 NOVI ROAD SUITE 100 NOVI, MI 48375			STERLING, AMY JO		
			ART UNIT	PAPER NUMBER	
			3632		
			NOTIFICATION DATE	DELIVERY MODE	
			03/27/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

cbalaw@gmail.com cbalaw@ameritech.net wblackman@ameritech.net

	Application No.	Applicant(s)			
	10/589,071	WATANABE ET AL.			
Office Action Summary	Examiner	Art Unit			
	AMY J. STERLING	3632			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>09 Au</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 2 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.				
The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 09 August 2006 is/are: Applicant may not request that any objection to the orange of the correction of the	a)⊠ accepted or b)□ objected t drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/9/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

DETAILED ACTION

This is the first Office Action for application number 10/589,071 On-Board Gaseous Fuel Tank Module, filed on 8/9/06. Claims 1 and 2 are pending.

Information Disclosure Statement

The information disclosure statement submitted on 8/9/06 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 5869746 to Watanabe et al. and in view of United States Patent Publication No. 2006/0096993 to Takashima.

Wantanabe et al. discloses applicant's basic inventive concept, including teaching a tank (6) having a support frame member (9) and a gaseous fuel tank (6)

tank complete unit.

fixed to the support member horizontally wherein the tank has a cylindrical complete unit and a gaseous fuel inlet and outlet valve device (14) provided at an axial end portion of the tank complete unit such that a part thereof protrudes outwardly from the

Page 3

Wantanabe et al. does not disclose the a pin hole provided in the other axial end portion of the tank complete unit so as to open outwardly; and an axis of the tank complete unit, an axis of the part of the valve device and a center line of the pin hole are disposed on a single straight line so that the part of the valve device and the pin hole are used to position the gaseous fuel tank horizontally.

Takashima discloses a tank with aligned openings (14a) positioned on either end of a cylindrical tank, the openings having their centerlines on a straight line, one opening which could be used for an inlet/outlet valve and the other opening which could be used as a pin hole, the tank openings positioned in axial alignment so that the tank may be use defectively in a horizontal manner (See Figure 4). Therefore it would have been obvious to one of ordinary skill in the art from the teachings of Takashima to use a tank with aligned openings in order to use the tank horizontally.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 5869746 to Watanabe et al. and in view of United States Patent Publication No. 2006/0096993 to Takashima as applied to claim 1 above and further in view of United States Patent No. 3362534 to Kay.

Watanabe et al. discloses the basic inventive concept with the exception that it does not teach that the cylindrical tank complete unit comprises an inner shell unit, and an outer shell of an FRP which covers the inner shell unit.

Takashima teaches a cylindrical tank that has comprises an inner shell unit, and an outer shell of an FRP (See paragraph 0004) which covers the inner shell unit, inner and outer layers used so that the tank does not leak and the material used because of its strength yet lightweight properties. Therefore it would have been obvious to one of ordinary skill in the art from the teachings of Takashima to have used this material in order to have a tank strong, lightweight and leak proof tank.

Watanabe et al. and Takashima do not teach the pin hole is defined by a pin hole formed body the pin hole formed body is embedded in the outer shell unit and comprises a cylindrical body in which the pin hole is opened in an end face thereof and a mounting flange residing at the other end of the cylindrical body and joined to the inner shell unit; and the opened end face of the cylindrical body is made either to be flush with or to sink from an outer surface of the outer shell unit.

Kay teaches a cylindrical tank with a pin hole (69) mounted on an axial end of the tank, the pin hole being defined by a pin hole formed body (65) the pin hole formed body is embedded in the outer shell unit (45) and comprises a cylindrical body in which the pin hole is opened in an end face thereof and a mounting flange (43) residing at the other end of the cylindrical body and joined to the inner shell unit (55); and the opened end face of the cylindrical body is made either to be flush with or to sink from an outer surface of the outer shell unit, the configuration used so that the pin hole is protectively

Application/Control Number: 10/589,071 Page 5

Art Unit: 3632

mounted to the cylinder. Therefore it would have been obvious to one of ordinary skill in the art from the teachings of Kay to used this pin hole configuration so that the pin hole

is protectively mounted to the cylinder.

Conclusion

Any inquiry concerning this communication should be directed to Amy J. Sterling

at telephone number 571-272-6823. The examiner can normally be reached (Mon-Fri

8am-5:00pm). The fax machine number for the Technology center is 571-273-8300

(formal amendments), informal amendments or communications 571-273-6823. Any

inquiry of a general nature or relating to the status of this application should be directed

to the Technology Center receptionist at 571-272-3600.

/Amy J. Sterling/

Primary Examiner, Art Unit 3632

3/28/08